QC ABSTRACT

Nameof Work: Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes as per Frequency	Actual No's of testes as per Frequency	Testes Results
1	1:3:6	258.30Cum	1	1	Cement,Sand, Aggregates
2	Steel	15.35 Tonne	1	1	-
3	M20	236.16 Cum	8	8	Concrete Cube Compressive strength
4	Slab - 100mm	354.24 Sqm	1	1	Concrete Core Compressive strength
5	M30	190.47 Cum	7	7	Concrete Cube Compressive strength
6	WMM	294.72Cum	-	-	
		Atterberg Limits	3	3	-
		AIV	2	2	-
		Shape Test	2	2	-
		Gradation	3	3	-
7	DBM	51.72 Cum	-	-	
		Quality of Binder	1	1	-
		AIV	1	1	-
		Shape Test	1	1	-
		Gradation	1	1	-
		Specific Gravity	2	2	-
		Bitumen content	2	2	-

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ಪಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
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8	BC	56.76 Cum	-	-	
		Quality of Binder	1	1	-
		AIV	1	1	-
		Shape Test	1	1	-
		Gradation	1	1	-
		Specific Gravity	1	1	-
		Stability of Mix	2	2	-
		Bitumen content	2	2	-

Cubes

0-5 Cum	1Set
6-15 Cum	2Set
16-30 Cum	3Set
31-50 Cum	4Set

Add 1set for extra 50Cum

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 23.12.2021

TEST REPORT

CLIENT	:	**Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
AGENCY	:	**M/s K T R Constructions(Prop.K.T.Ravi),** Contractor, Mysore.
NAME OF THE WORK	:	Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
SAMPLE ID	:	Cement (Birla OPC 53 Grade)
DATE OF MANUFACTURE		November - 2021
DATE OF TESTING		21.12.2021 to 23.12.2021
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	125 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	28.50 %	-

Note:

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⇒ Any Query regarding the report must be reported within 30days from the date of testing.

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Authorised Signatory

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 23.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.

Agency : M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.

Name of Work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Date of Testing : 23.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	71	7.10	7.10	92.9	90-100
2.36	149	14.90	22.00	78.0	75-100
1.18	183	18.30	40.30	59.7	55-90
600 Micron	174	17.40	57.70	42.3	35-59
300 Micron	247	24.70	82.40	17.6	8-30
150 Micron	152	15.20	97.60	2.4	0-10

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date : 23.12.2021

TEST REPORT ON FINE AGGREGATES (SAND)
IS 2116-1980

Client : Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.

Agency : M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.

Name of Work Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Date of Testing : 23.12.2021

Material : Sand - Masonry

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits as per IS 2116-1980
4.75	0	0.00	0.00	100.0	100
2.36	29	2.90	2.90	97.1	90-100
1.18	47	4.70	7.60	92.4	70-100
600 Micron	86	8.60	16.20	83.8	40-100
300 Micron	262	26.20	42.40	57.6	5-70
150 Micron	502	50.20	92.60	7.4	0-15

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 23.12.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of Work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Date of Testing : 23.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	198	4.0	4.0	96.0	95-100
10	2519	50.4	54.3	45.7	25-55
4.75	1958	39.2	93.5	6.5	0-10

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date : 23.12.2021

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of Work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Date of Testing : 23.12.2021

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	159	1.06	1.06	98.94	95-100
20	8213	54.75	55.81	44.19	30-70
10	3243	21.62	77.43	22.57	10-35
4.75	2786	18.57	96.01	3.99	0-5

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date : 29.12.2021

TEST REPORT OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of Work Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Steel Dia/Length : 8mm, 10mm, 12mm" TMT"

Reference to BIS codes : IS 1786:2008(RA 2013) High Strength Deformed Steel Bars and Wires for Concrete Reinforcement-Specification

: IS 1608:2005 Metallic Materials- Tensile Testing at Ambient Temperature

Date of test : 29.12.2021

S.No	Brand	Nominal size (dia in mm)	Mass per meter (kg/meter)	TENSILE STRENGTH			
				0.20 % proof stress/ yield stress (N/mm^2)	Tensile strength (N/mm^2)	TS/YS ratio	Elongation , percent on gauge length
1	TMT	8	0.399	539	631	1.17	14.5
2	TMT	10	0.618	548	637	1.16	15
3	TMT	12	0.889	559	644	1.15	15

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 21.01.2022

PRECAST SLAB 100 mm Thick(CORE) TEST REPORT

Client	:	: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.
Contractor	:	: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.
Name of Work	:	Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	21.01.2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.381	2456.22	1.58	0.955	33.20	16.91	18.26	17.43	21.79
2	50.00	82.00	0.388	2409.84	1.64	0.961	33.70	17.16	18.54	17.82	22.27
3	50.00	81.00	0.396	2489.89	1.62	0.959	34.30	17.47	18.87	18.09	22.62

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 13.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2022	13.01.2022	8.134	341.7	15.19
2	06.01.2022	13.01.2022	8.138	343.5	15.27
3	06.01.2022	13.01.2022	8.146	347.9	15.46

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 03.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**: Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**
Name of the work	: Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2022	03.02.2022	8.149	504.3	22.41
2	06.01.2022	03.02.2022	8.153	507.2	22.54
3	06.01.2022	03.02.2022	8.147	502.9	22.35

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Job No.: CACE/BBMP/KTR/W.No.14 /2021-22 Date: 13.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2022	13.01.2022	8.144	343.3	15.26
2	06.01.2022	13.01.2022	8.149	349.1	15.52
3	06.01.2022	13.01.2022	8.158	351.8	15.64

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Date: 03.02.2022

Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	06.01.2022	03.02.2022	8.159	505.7	22.48
2	06.01.2022	03.02.2022	8.174	513.2	22.81
3	06.01.2022	03.02.2022	8.162	503.1	22.36

Note:

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2. The results indicated above are based on the tests carried out on the samples collected at the site.
3. Any Query regarding the report must be reported within 30 days from the date of testing.

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಜಿ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ. ಜಿ.ಜಿ.ಎಂ.ಪಿ
ಬೆಂಗಳೂರು-560073

For CIVIL AIM CONSULTANTS & ENGINEERS

Authorised Signatory

No. 01, Satvika Nilaya, Opp. Widia Poorna Prajna School,
Ramaiah Layout, Nagasandra, Bangalore - 560 073.
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CIVIL AIM CONSULTANTS & ENGINEERS

(Building Geo-Tech & Highway Materials Testing Laboratory)

An ISO 9001-2015 Certified Company

NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 18.01.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.01.2022	18.01.2022	8.167	339.9	15.11
2	11.01.2022	18.01.2022	8.164	342.7	15.23
3	11.01.2022	18.01.2022	8.152	345.2	15.34

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ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರ
ಕ. ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/KTR/W.No.14 /2021-22

Date: 08.02.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client : **Assistant Executive Engineer ,Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **M/s K T R Constructions(Prop.K.T.Ravi), Contractor, Mysore.**

Name of the work : Improvements of roads and drains in Bhuvaneshwari Nagara and Other area in Bagalagunte ward no.14, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	11.01.2022	08.02.2022	8.175	509.7	22.65
2	11.01.2022	08.02.2022	8.178	518.1	23.03
3	11.01.2022	08.02.2022	8.186	522.1	23.20

Note:

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